

## **Appendix 1**

### **Photograph Log**



**Photograph 1. Outfall 5-57: Randolph Road and Winston Churchill Drive.**



**Photograph 2. Outfall 5-57: Randolph Road and Winston Churchill Drive.**



**Photograph 3. Outfall 5-57: Interior of Outfall Manhole.**



**Photograph 4. Outfall 5-57: Creek that meets Outfall 5-57 pipe located at E. Randolph Road and Winston Churchill Drive.**



**Photograph 5. Outfall 5-57: E. Randolph Road and Winston Churchill Drive, the manhole where monitoring occurs is on the lefthand side of the road.**



**Photograph 6. Outfall 6-27: Cattail Creek looking upstream.**



**Photograph 7. Outfall 6-27: Discharge into Cattail Creek.**



**Photograph 8. Outfall 6-27: Looking downstream of Cattail Creek.**



**Photograph 9. Public Works Facility: Sewer drain in fire department bay (Building A – Facility Map).**



**Photograph 10. Public Works Facility: Front pad of fire department (Building A – Facility Map).**

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**Photograph 11. Public Works Facility: Standing water next to fueling island (Building C – Facility Map) located adjacent to a railroad track.**



**Photograph 12. Public Works Facility: Alternate view of Photograph 11 with drainage to railroad track (background).**



**Photograph 13. Public Works Facility: Visible oil on fueling island pad (Building C – Facility Map).**



**Photograph 14. Public Works Facility: Additional area of oil on ground surface near rear of fueling island (Building C – Facility Map).**



**Photograph 15. Public Works Facility: Two empty drums and an unlabeled yellow barrel containing liquid north of Fire Drills Tower (Building B- Facility Map).**



**Photograph 16. Public Works Facility: Catch basin with inlet protection located between Vehicle Maintenance Chemical Storage Area 2 and Vehicle/Equipment Maintenance Chemical Storage Area 5 (Facility Map).**

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**Photograph 17. Public Works Facility: Alternate view of catch basin inlet protection in Photograph 16.**



**Photograph 18. Public Works Facility: Equipment and Materials Storage Building (Building F - Facility Map) with compromised roof.**



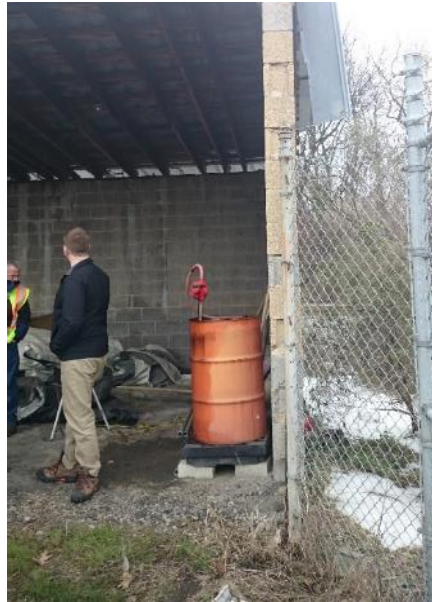
**Photograph 19. Public Works Facility: Partial label on the container stored in the Equipment and Materials Storage Building depicted in Photograph 18.**



**Photograph 20. Public Works Facility: Alternate view of label on the containers stored in the Equipment and Materials Storage Building depicted in Photograph 18.**



**Photograph 21. Public Works Facility: Storage bags inside the Equipment and Material Storage Building (Building F - Facility Map).**



**Photograph 22. Public Works Facility: Metal drum containing petroleum product used on concrete form work inside the far north side of the Equipment and Materials Storage Building (Building F - Facility Map).**





**Photograph 25. Public Works Facility: Entire view of Equipment and Materials Storage Building (Building F - Facility Map).**



**Photograph 26. Public Works Facility: Propane tanks located south of Vehicle Storage Area 12 and Equipment Storage Area 13 (Facility Map).**

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**Photograph 27. Public Works Facility: Oil sheen on water flowing towards low point located near Outdoor Storage Area 10 and Vehicle Washing Area 11 (Facility Map), where the drain was clogged.**



**Photograph 28. Public Works Facility: Standing water near low point at the Vehicle Washing Area 11 (Facility Map).**



**Photograph 29. Public Works Facility: Pipe draining out of the Vehicle Washing Area 11 (Facility Map) to Station Street.**



**Photograph 30. Public Works Facility: Open gravel pit located in low point near Outdoor Storage Area 10 and Vehicle Washing Area 11 (Facility Map).**

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**Photograph 31. Public Works Facility: Outdoor Storage Material Area 15 (Facility Map).**



**Photograph 32. Public Works Facility: Vehicle/Equipment Storage Area 15 (Facility Map).**

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**Photograph 33. Public Works Facility: Looking downhill from Equipment Storage Area 13 towards Storage Area 16 (Facility Map).**



**Photograph 34. Public Works Facility: Empty barrel and rusted metal debris located near Trash Storage Area 14 (Facility Map).**

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**Photograph 37. Public Works Facility: Creek with flowing water approximately 10 feet northwest and downhill from the street sweeping pile pictured in Photograph 36.**



**Photograph 38. Public Works Facility: From the north end of the Outdoor Material Storage Area 15 (Facility Map) looking southwest.**

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**Photograph 39. Public Works Facility: Alternate view of Photograph 38, looking southwest of Outdoor Material Storage Area 15 (Facility Map).**



**Photograph 40. Public Works Facility: Silt fence located behind sweeping pile pictured in Photograph 36.**

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**Photograph 41. Public Works Facility: Silt fence behind street sweeping pile pictured in Photograph 36.**



**Photograph 42. Public Works Facility: Poythress Run, down gradient of the street sweeping pile pictured in Photograph 36.**



**Photograph 43. Public Works Facility: Alternate view of Poythress Run, down gradient of the street sweeping pile pictured in Photograph 36.**



**Photograph 44. Public Works Facility: Outfall 2 (Facility Map) and Outfall 5-59 in the City's Outfall Inventory.**



**Photograph 45. Public Works Facility: Outfall 2 (Facility Map) to the right and sanitary sewer to the left, with Poythress Run in the background.**



**Photograph 46. Public Works Facility: Drum in Pump Station (Building J – Facility Map).**

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**Photograph 47. Public Works Facility: Outfall 2 (Facility Map).**



**Photograph 48. Public Works Facility: Sign located at the public entrance to the Citizens Convenience Center.**



**Photograph 49. Public Works Facility: Covered Salt Storage Building G and Equipment/Materials Storage Building H (Facility map) in the background, with sand pit in foreground.**



**Photograph 50. Hopewell High School Stormwater Management Facility: Stormwater Retention Pond.**

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**Photograph 51. Hopewell High School Stormwater Management Facility: Pond outfall (pipe located in concrete structure at right side of photo).**



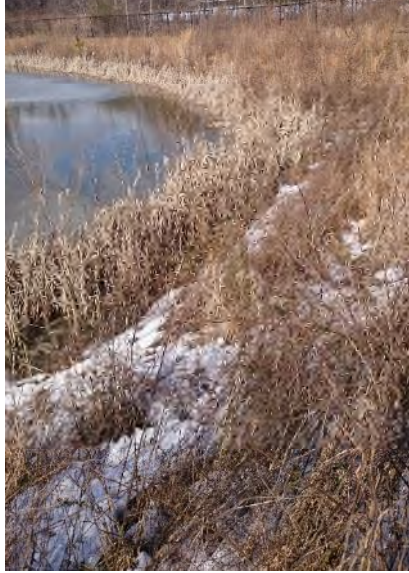
**Photograph 52. Hopewell High School Stormwater Management Facility: Alternate view of the outfall to the pond.**



**Photograph 53. Hopewell High School Stormwater Management Facility: Alternate view of the outfall to the pond.**



**Photograph 54. Hopewell High School Stormwater Management Facility: Inlet to pond (foreground).**



**Photograph 55. Hopewell High School Stormwater Management Facility: Inlet to pond.**



**Photograph 56. Hopewell High School Stormwater Management Facility: Alternate view of inlet to pond with trash visible.**



**Photograph 57. Hopewell High School Stormwater Management Facility: Wetland erosion stabilized with riprap.**



**Photograph 58. Hopewell High School Stormwater Management Facility: Alternate view of wetland erosion stabilized with riprap.**



**Photograph 59. Hopewell High School Stormwater Management Facility: Opposite side of the pond pictured in Photograph 50.**



**Photograph 60. Hopewell High School Stormwater Management Facility: Stormwater retention pond emergency spillway.**

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**Photograph 61. Hopewell High School Stormwater Management Facility: Gap in the fence surrounding the pond near the emergency spillway.**



**Photograph 62. Hopewell High School Stormwater Management Facility: Pond riser structure.**



**Photograph 63. Hopewell High School Stormwater Management Facility: Small tree growing among the cattails on the bank of the pond.**



**Photograph 64. Westmoreland Development Private Stormwater Management Facility: Storm drain on road.**



**Photograph 65. Westmoreland Development Private Stormwater Management Facility:  
Downstream view of channel adjacent to the stormwater management facility.**



**Photograph 66. Westmoreland Development Private Stormwater Management Facility:  
Facility 1-56 as identified by the stormwater management facility database.**



**Photograph 67. Westmoreland Development Private Stormwater Management Facility:  
Facility 1-56 as identified by the stormwater management facility database.**



**Photograph 68. Westmoreland Development Private Stormwater Management Facility:  
View across Facility 1-56 as identified by the stormwater management facility database  
from channel (behind photographer).**



**Photograph 69. Westmoreland Development Private Stormwater Management Facility:  
End of channel at the far downhill portion of Facility 1-56 as identified by the stormwater  
management facility database.**



**Photograph 70. Westmoreland Development Private Stormwater Management Facility:  
Looking uphill from Photograph 69, over Facility 1-56 as identified by the stormwater  
management facility database.**



**Photograph 71. Westmoreland Development Private Stormwater Management Facility:  
Embankment next to channel pictured in Photograph 65 for Facility 1-56 as identified by  
the stormwater management facility database.**



**Photograph 72. Westmoreland Development Private Stormwater Management Facility:  
Uphill view with channel in right of photograph of Facility 1-56 as identified by the  
stormwater management facility database.**



**Photograph 73. Westmoreland Development Private Stormwater Management Facility: Riprap next to channel entrance to Facility 1-56 as identified by the stormwater management facility database.**



**Photograph 74. Hopewell Regional Wastewater Treatment Plant Construction Site: DEQ mailbox, rain gauge, and permits.**



**Photograph 75. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Disturbed embankment.**



**Photograph 76. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Alternate view of disturbed embankment.**

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**Photograph 77. Hopewell Regional Wastewater Treatment Plant Construction Site: Internal road exit from construction site.**



**Photograph 78. Hopewell Regional Wastewater Treatment Plant Construction Site: Inlet protection around storm drain connected to sediment basin.**



**Photograph 79. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Alternate view of inlet protection.**



**Photograph 80. Hopewell Regional Wastewater Treatment Plant Construction Site: Oil  
barrel with overflow into a secondary containment barrel.**



**Photograph 81. Hopewell Regional Wastewater Treatment Plant Construction Site: Oil barrel with overflow into a secondary containment barrel.**



**Photograph 82. Hopewell Regional Wastewater Treatment Plant Construction Site: Inlet protection around storm drain connected to sediment basin.**

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**Photograph 83. Hopewell Regional Wastewater Treatment Plant Construction Site: Silt fence and a wetland located at bottom of site.**



**Photograph 84. Hopewell Regional Wastewater Treatment Plant Construction Site: Silt fence and a wetland located at bottom of site.**

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**Photograph 85. Hopewell Regional Wastewater Treatment Plant Construction Site: Silt fence and a wetland located at bottom of site.**



**Photograph 86. Hopewell Regional Wastewater Treatment Plant Construction Site: Silt fence and a wetland located at bottom of site.**

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**Photograph 87. Hopewell Regional Wastewater Treatment Plant Construction Site: Silt fence and a wetland located at bottom of site.**



**Photograph 88. Hopewell Regional Wastewater Treatment Plant Construction Site: Silt fence and a wetland located at bottom of site.**

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**Photograph 89. Hopewell Regional Wastewater Treatment Plant Construction Site: On the far side of the embankment from Photographs 83-88, showing location of former temporary sedimentation basin 3.**



**Photograph 90. Hopewell Regional Wastewater Treatment Plant Construction Site: On the far side of the embankment from Photographs 83-88, showing location of former temporary sedimentation basin 3.**

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**Photograph 91. Hopewell Regional Wastewater Treatment Plant Construction Site: On the far side of the embankment from Photographs 83-88, showing location of former temporary sedimentation basin 3.**



**Photograph 92. Hopewell Regional Wastewater Treatment Plant Construction Site: On the far side of the embankment from Photographs 83-88, showing location of former temporary sedimentation basin 3.**

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**Photograph 93. Hopewell Regional Wastewater Treatment Plant Construction Site: On the far side of the embankment from Photographs 83-88, showing a dewatering bag actively leaking.**



**Photograph 94. Hopewell Regional Wastewater Treatment Plant Construction Site: Construction embankment with rilling.**



**Photograph 95. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Construction access road with construction embankment to the right.**



**Photograph 96. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Construction embankment (right) with temporary sediment basin 1 (left background).**



**Photograph 97. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Alternate view of construction embankment.**



**Photograph 98. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Temporary sediment basin 1 looking downstream.**



**Photograph 99. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Temporary sediment basin 1 looking upstream.**



**Photograph 100. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Outfall from temporary sediment basin 1.**

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**Photograph 101. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Outfall of temporary sediment basin 1 draining down the hill (background) directly into  
the James River.**



**Photograph 102. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Alternate view of outfall from temporary sediment basin 1.**



**Photograph 103. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Closer view of silty water draining from outfall of sediment basin 1.**



**Photograph 104. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Closer view of outfall of sediment basin 1.**



**Photograph 105. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Downhill of outfall pictured in Photographs 101-104 with the James River in the  
background.**



**Photograph 106. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Water flowing downhill of outfall pictured in Photographs 101-104 With the James River  
in the background.**



**Photograph 107. Hopewell Regional Wastewater Treatment Plant Construction Site: Close up view of silty water flowing downhill of outfall pictured in Photographs 101-104.**



**Photograph 108. Hopewell Regional Wastewater Treatment Plant Construction Site: Hill between outfall (photographs 101 – 104) and the James River with an overturned rusted barrel.**



**Photograph 109. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Uphill view of water flowing down from outfall pictured in Photographs 101-104.**



**Photograph 110. Hopewell Regional Wastewater Treatment Plant Construction Site:  
Concrete wash pit.**